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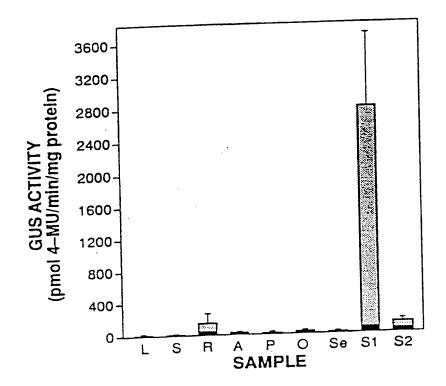


FIGURE 1



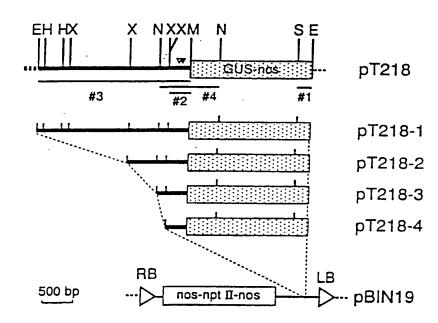
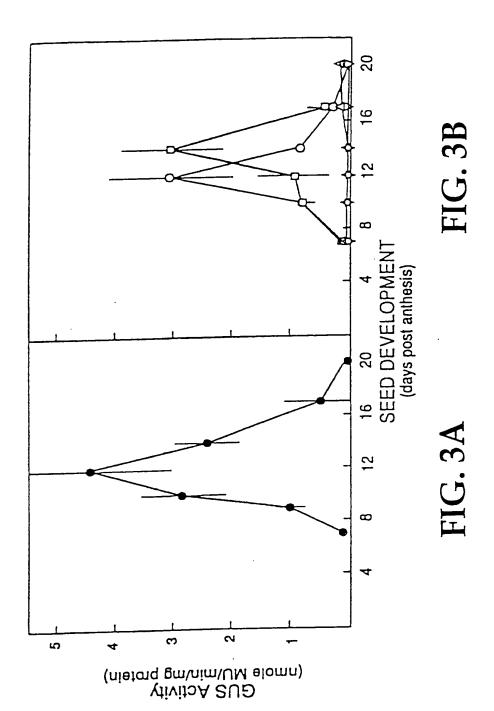


FIGURE 2

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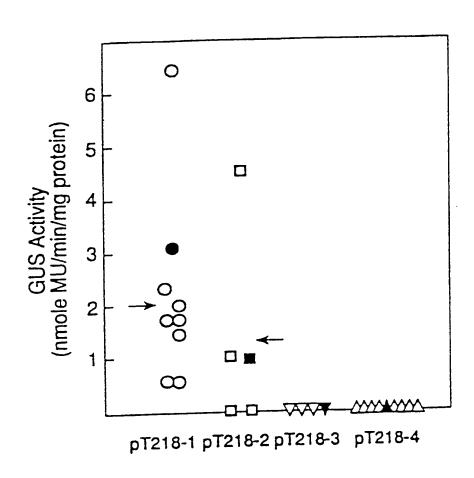
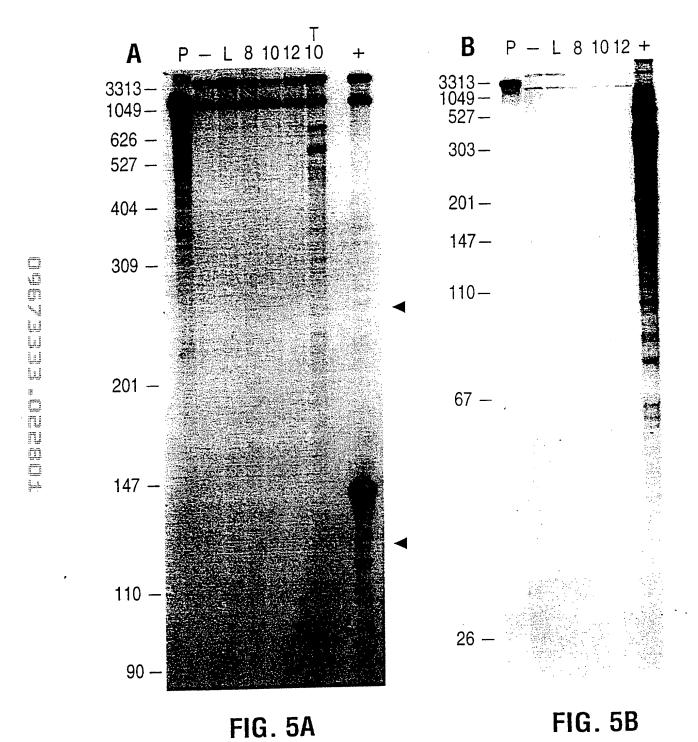


FIGURE 4



	1
L	Xbal TCTAGACTTGTCTTTCTTTACATAATCCTCTTCTTTTTTTT
51	TTTATCCAAAAACGAATTATTGATTAAGAAATACACCAGACAAGTTTTTTACTTCTTTT
121	TCTTTTTTTTTTTGTGGTAAAAATTACACCTGGACAAGTTTATCACGAAAATGAAAATT
181	GCTATTTAAGGGATGTAGTTCCGGACTATTTGGAAGATAAGTGTTAACAAAATAAAT
241	TAAAAAGTTTATACAGTTAGATCTCTCTATAACAGTCATCCTTATTTAT
301	ACTATAACCGTCAAATTTATTTTGAAACAAAATTTTCATGTTATGTTACTATAACAGTAT
361	TTTATTATAGCAACCAAAAAATATCGAAACAGATACGATTGTTATAGAGCGATTTGATTG
421	SnaB1 TATCATTATCCACATATTTTCGTAAGCCCAATTACTCCTCCTACGTACG
481	CCAATTTAAAGTTGCAAAAATCCAATAGATTTCAATACTTCTTCAACTGGCGTTATGTTA
541	GGTAATGACTCCTTTTAACTTTTCATCTTTAATTTGAAGTTTCTTTC
601	5—Xbal→ TTTCTAGAAGAGAAGTGTTTTAACACTTCTAGCTCTACTATTATCTGTGTTTCTAGAAGA
661	AAAATAGAAAATGTGTCCACCTCAAAAACAACTAAAGGTGG <u>GCAAATCTG</u> CACCTATTTA
721	TTTTATTTTGGATTAATTAAGATATAGTAAAGATCAGTTATAAACGGAGTTTTGAGTTGA
781	TACAGTGAATTTTAAGATGTGTACCGATTTAACTTTATTTA
841	TATA TAAGAAGTCCGATTTGGAAATACTAGATTTTGTCAATCAGGCAATTCATGTGGTTGAAGA
901	ATTTAAGTTATACAATGATGATATAAAGAATTTTTATACTATTAGTGCAAATTAATCG
957	ATTACTAAAAATTATTCTATTAATTTATGCTATC GTGCCTCCCCAAGCCGTCGACC
	· ·
1005	GCGGTACCCGGTGGTCAGTCCCTT ATG TTA CGT CGT GTA GAA ACC CGA ACC

FIGURE 6

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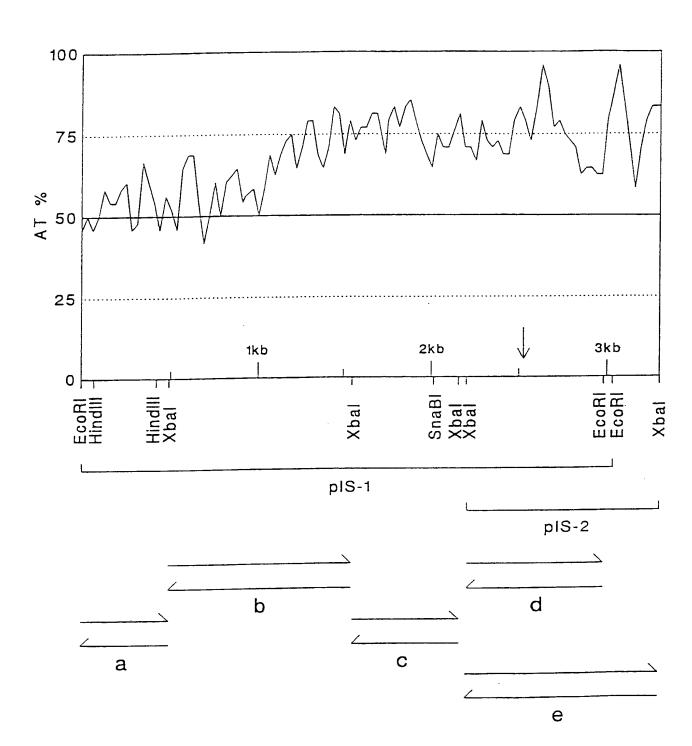


FIGURE 7

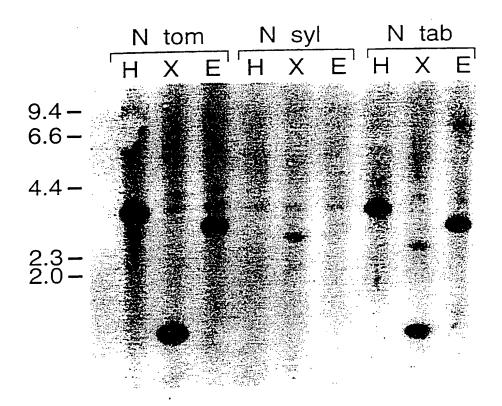


FIG. 8

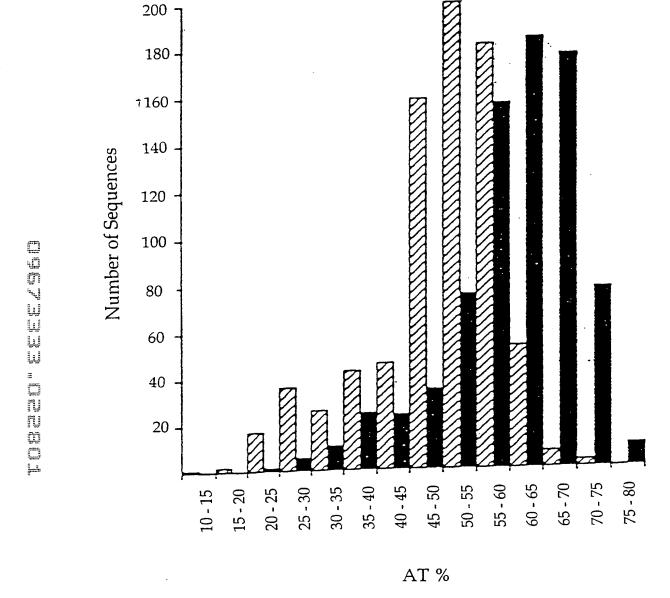
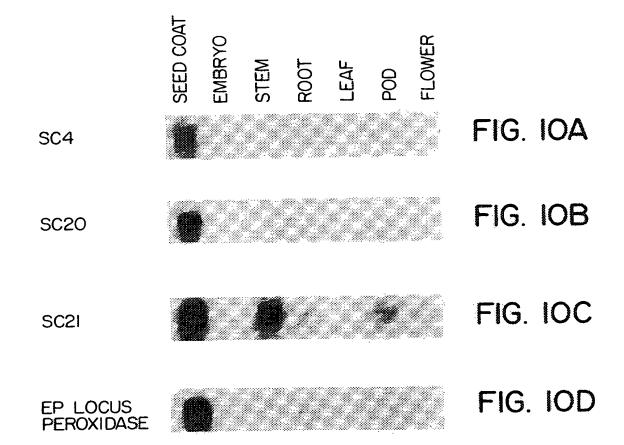


FIGURE 9



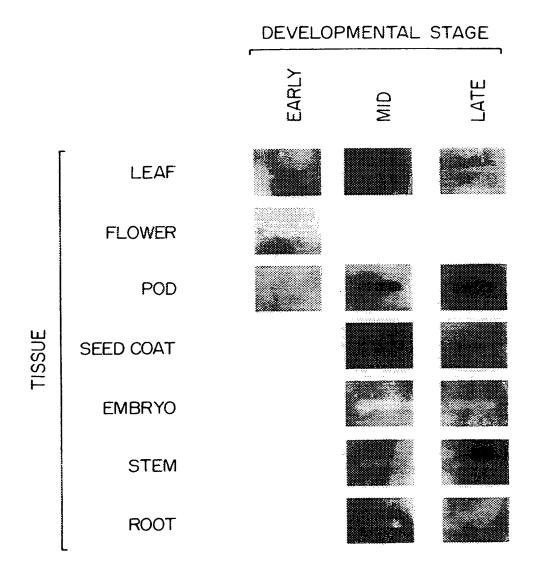
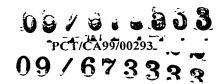
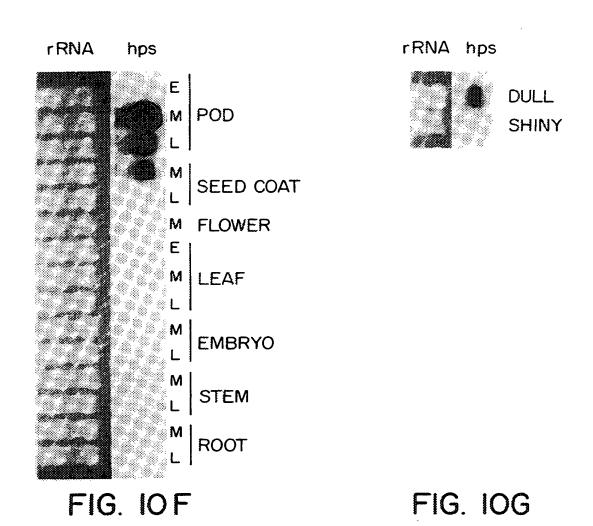


FIG. IOE





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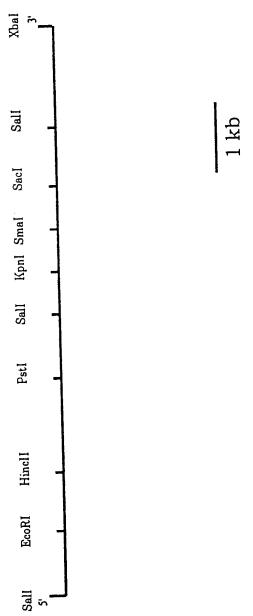


FIGURE 11(A)

CSG73333 ... OPESC1

RESTRICTION MAP OF SC21

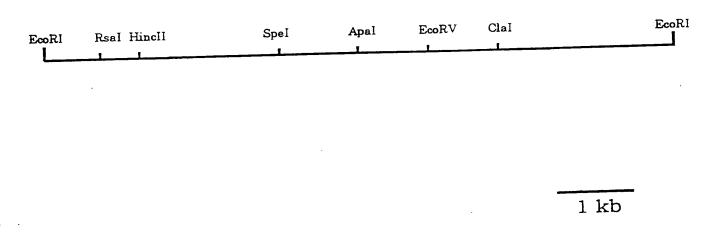


FIGURE 11(B)



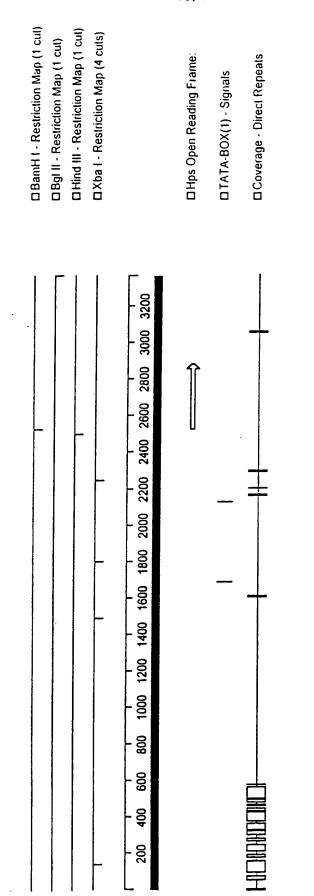
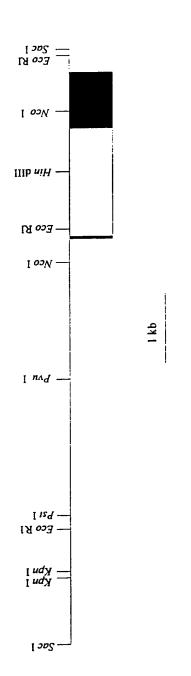


FIGURE 11(C)

SUBSTITUTE SHEET (RULE 26)

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Restriction map of sc4

The shaded and open boxes represent exons and introns respectively.

FIG. 11(D)

6 DAF

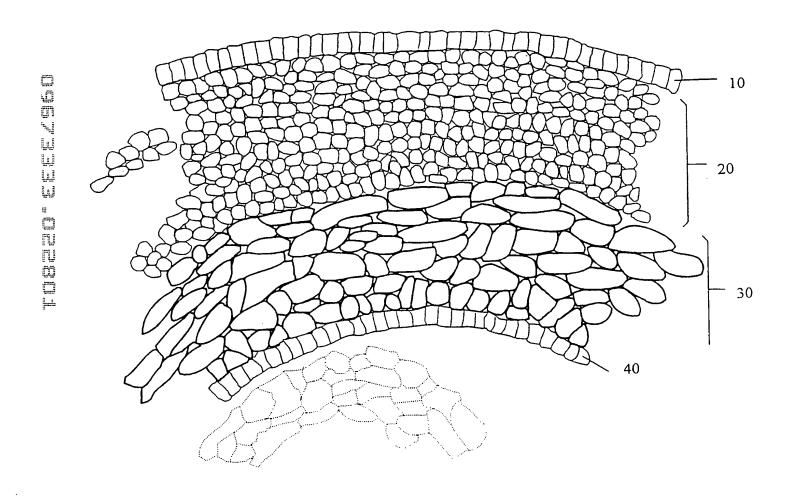


FIGURE 12(a)

12 DAF

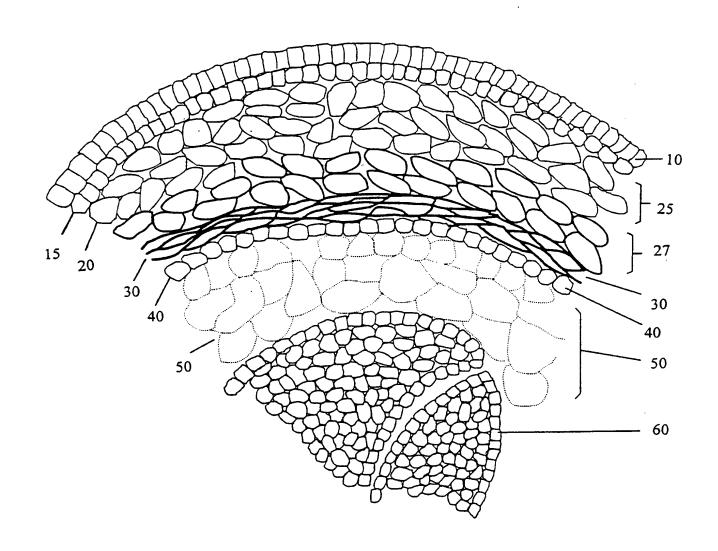


FIGURE 12(b)

18 DAF

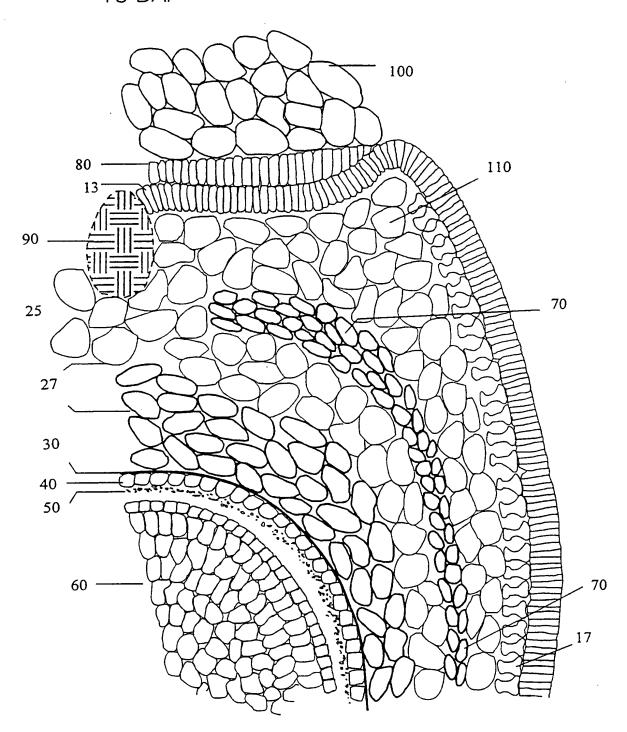
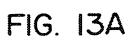


FIGURE 12(c)



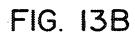
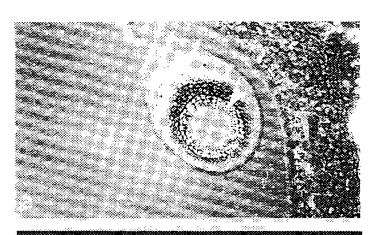
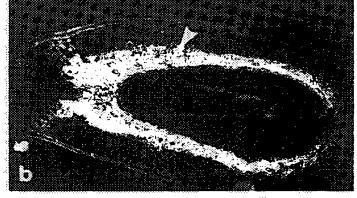


FIG. 13C

FIG. 13D







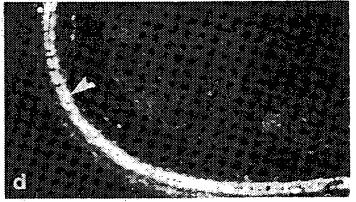
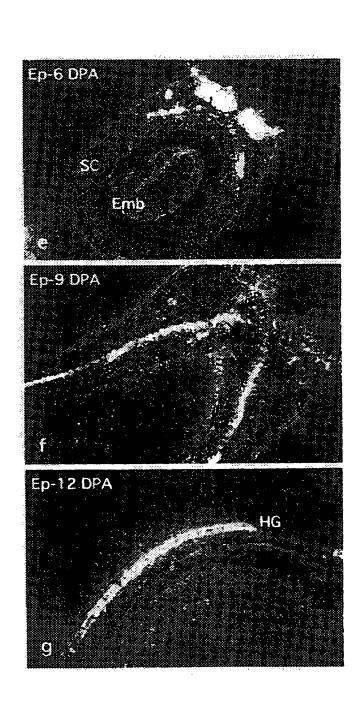




FIG. 13F

FIG. 13G



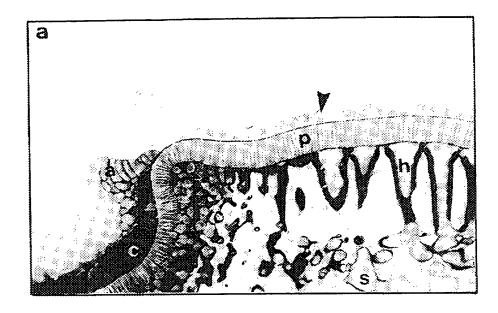


FIG. 14A

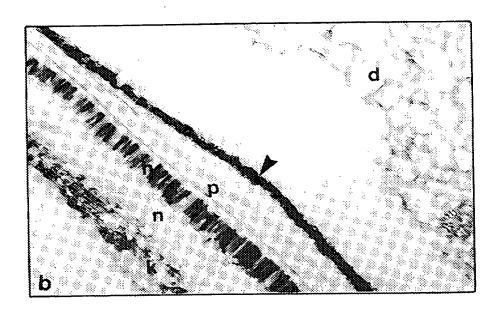


FIG. 14B

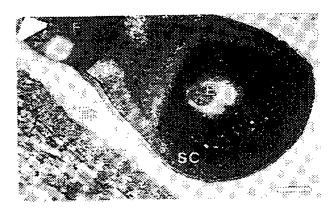


FIG. 14C

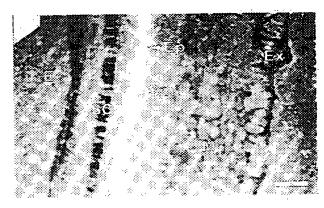


FIG. 14D

AAG								rca:	222	ATG	GGA'	rcc	AAG	STI	STIC	בכא:		TTC	3C	50
AAG:	CTT	rca	AGA(عدد	****					M	G	s	К	Ŋ	Ŋ	<u> </u>	S	v	_3	10
																	~	T 3 C	- 2	120
CTT	CTC	CTC	TCC	ATC	AAC	ATT	CTT	TTC	ATT	TCC	ATG	GTT	AGC	rcc	ساجاته	460				
CII L	Ţ.	L	s	I	И	<u> </u>	<u>L</u>			s	М	<u>v</u>	_s_	<u>s</u>	<u>_S</u> _	5_	н.	<u> </u>	ט	30
יככא						a	~~~	3 C-T		بب	דדב	aca	CGA	CCI	AGT	TGT	ccG	GAT	CI	190
CCY.	.CAG	CCC	CYY	CCT	TCT	CAC	GIC	AC 1	GC I	~ · ·	7		9	פ	S	C	P	D	L	50
.CCY	C	<u> </u>	2	_ <u>P</u> _	_\$_	<u> </u>	<u></u>		^	ш	•	٠	••	-	_	-	-			
AGT					عدر لا	TT 3	ccc	GGG	TCT	CTA	.GGA	ACC	GTG	GAT	GAT	TGT	TGT	GCC	CT	240
AGT S	'ATT	TGC	Crc	.A.A.	AL I	T.		G	s	L	G	T	v	D	D	C	C	Α	L	70
ATC			عدنده.	CCT	.c.z.c	ATT	'GAA	GCC	λTI	GTG	TGC	CTI	TGC	ATC	CAA	CTC	AGG	GCC	CT	300
I I	د فاقا. ح	دیی	.C.L.L	G	D	I	Ε	A	I	v	C	L	С	I	Q.	L	R	A	L	90
CGGA	מידים	والمن	220	CTI	AAC	CGI	AAT	TTO	CAC	TTP	AT2	TTP	AAC	TCC	TGT	GGA	CGA	AGC	TA.	360
CGG? G	T	L	N	L	N	R	N	L	Q	L	I	L	И	s	С	G	R	S	Y	110
																				470
ccc	TC	LAAC	GCC	AC1	TGC	CCC	CG	ACC	TA	\GA	CAC	CAA	ATC	TAT	GGC	ACI	TAAT	TAC	CA.	420 119
P	s	N	A	T	C	P	R	T	*								•	•		713
																		~T' N T		480
TAT:	CACT	TC	TAT	CA?	rggī	GTT	TG	TTC	TT	rgr	TGI	rgT:	TA	LÄG I	. TA.	iGG.	1101	. IAI		100
											. s. m 1				. 3 77	222	בדים:	CGI	cc	540
CCT	rcg:	rgc	TGG	TA	CATA	CAT	CAT	AGT	3GG(_AC	IAT	774.13	** **		~~	.				
ATA'									יידא	٠ ٠	ر ب	1T2	CAA	XTA:	LAG(STT	ACG:	CAA?	TGT	600
ATA'	TAT	AAG.	ITA.	AAT	AAT	LAA	LAA	#1M												
TGT			~~~(-C 2'	TGG	GA:	rcT	TAT	CTT	CCT	CCT	cgc'	TAT	CTT	TGT"	rta'	rcg:	rat.	rrc	660
IGT	I G'I'	1 - 1	٠٠١٠	. U.A																
																				70
			rcwi	rma :	ברב	222	TC	TI	rgT?	CA	ACA	\GT	(A) ,	ı						70

FIGURE 15(A)

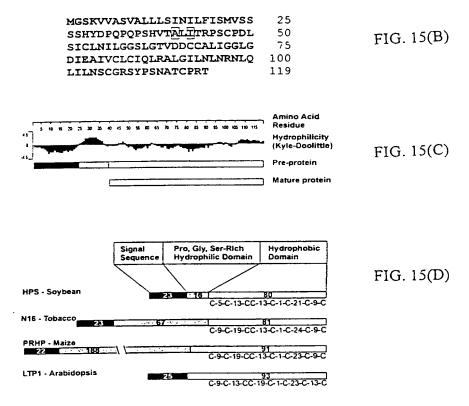


FIG. 15

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CULTIVAR: CLARK PHENOTYPE: DULL



WILLIAMS 82 SHINY

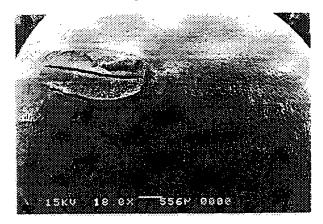
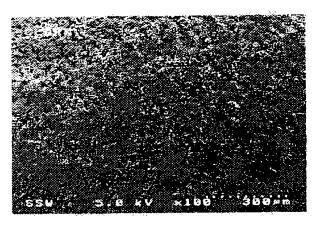


FIG. 16A



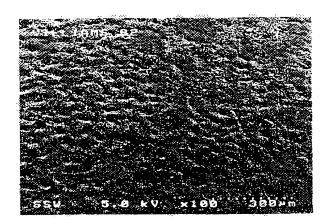
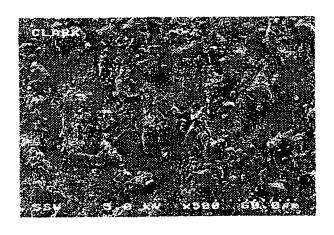


FIG. 16B



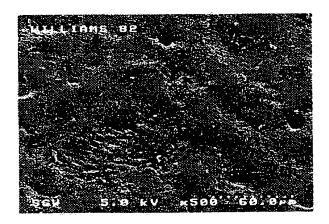
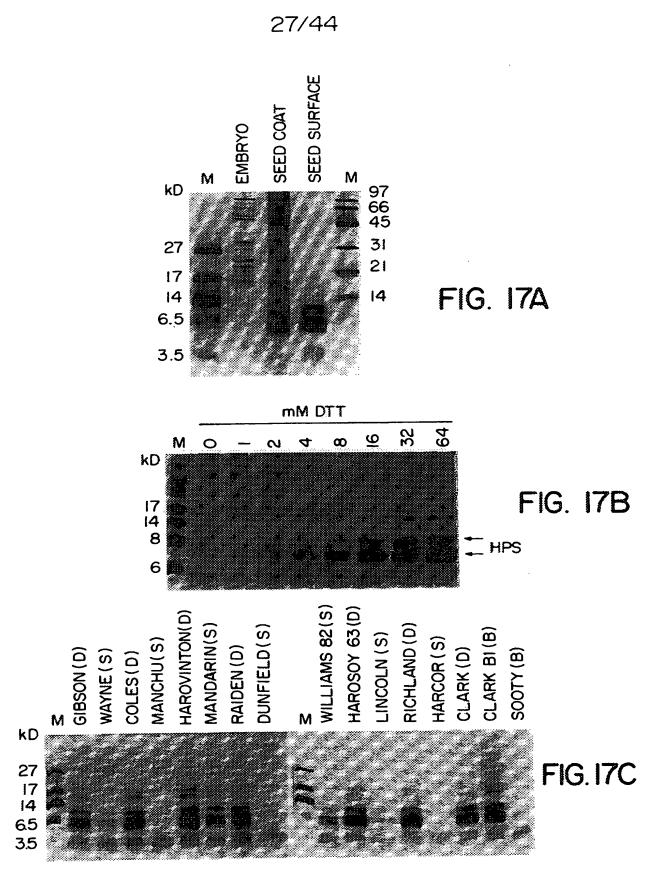


FIG. 16C



SUBSTITUTE SHEET (RULE 26)

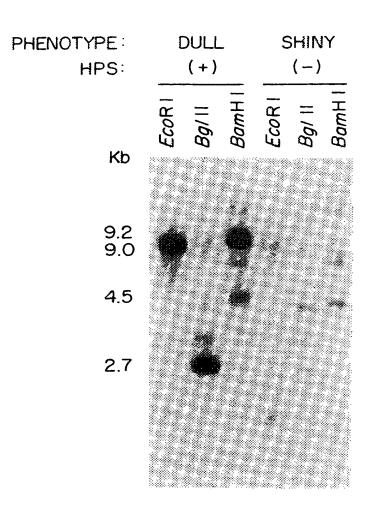


FIG. 18

PCT/CA99/00293

WO 99/53067

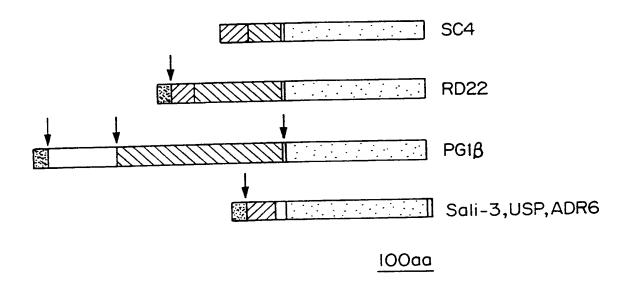
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	C	AAT N	GCT A	GCG A	TTA L	ACT T	CCT P	AGA R	CAT H	TAC Y	TGG W	GAA E	ACG T	ATG M	CTT L	CCA P	AGA R	ACT T	CCC P	55 18
	TTG L	CCG P	AAA K	GCA A	ATC I	ACA T	GAG E	CTA L	CTA L	AGC S	CTT L	GAA E	AGT S	AGG R	TCC S	ATA I	TTT F	GAA E		112 37
		GGG G		GAT D	GAC D	CAG Q	TCA S	GAA <u>E</u>	AGT S	AGG R	TCC S	ATA I	TTA L	GGA G	TAC	GCT A	GGC G	TAT Y	AAT N	169 56
	CAA	GAC	GAG	GAT	GAT	GTG	AGC	AAA	CAC	TAA	ATA	CAA	ATC	TTC	AAC	AGG	TTG	TTT	TTC	226
	Q	D	E	D	D	V	S	K	H	N	I	Q	I	F	N	R	L	F	F	75
	TTG	GAA	GAG	GAC	CTG	CGT	GCT	GGC	AAA	ATA	TTC	AAC	ATG	AAG	TTC	GTC	AAC	AAC	ACA	283
	L	E	E	D	L	R	A	G	K	I	F	N	M	K	F	V	N	N	T	94
	AAA	GCC	ACA	GTC	CCG	TTG	CTA	CCG	CGC	CAA	ATT	TCG	AAA	CAA	ATA	CCG	TTC	TCA	GAA	340
	K	A	T	V	P	L	L	P	R	Q	I	S	K	Q	I	P	F	S	E	113
	GAT	AAA	AAG	AAG	CAA	GTG	TTG	GCG	ATG	CTT	GGC	GTG	GAA	GCG	AAC	TCA	AGC	AAC	GCC	397
	D	K	K	K	Q	V	L	A	M	L	G	V	E	A	N	S	S	N	A	132
T	AAG	ATC	ATA	GCG	GAG	ACC	ATT	GGT	CTT	TGC	CAA	GAG	CCT	GCA	ACG	GAG	GGA	GAA	AGG	454
L	K	I	I	A	E	T	I	G	L	C	Q	E	P	A	T	E	G	E	R	151
	AAA	CAC	TGC	GCG	ACT	TCG	TTG	GAG	TCC	ATG	GTT	GAT	TTC	GTC	GTT	TCC	GCG	CTC	GGG	511
	K	H	C	A	T	S	L	E	S	M	V	D	F	V	V	S	A	L	G	170
	AAG	AAC	GTT	GGT	GCT	TTC	TCA	ACA	GAG	AAA	GAA	AGG	GAA	ACT	GAG	TCT	GGA	AAG	TTT	568
	K	N	V	G	A	F	S	T	E	K	E	R	E	T	E	S	G	K	F	189
	GTA	GTG	GTG	AAA	AAT	GGG	GTG	AGG	AAG	TTG	GGA	GAT	GAT	AAG	GTT	ATT	GCC	TGT	CAT	625
	V	V	V	K	N	G	V	R	K	L	G	D	D	K	V	I	A	C	H	208
T	CCA	ATG	AGT	TAC	CCT	TAT	GTT	GTG	TTT	GGG	TGT	CAT	CTA	GTG	CCA	AGG	AGT	AGC	GGG	682
C	P	M	S	Y	P	Y	V	V	F	G	C	H	L	V	P	R	S	S	G	227
f	TAT TTG GTG CGC TTG AAG GGA GAA GAI GGG GII CGA GIG 121 GGI GI														739 246					
	CAC	AGA	GAC	ACG	TCA	aag	TGG	GAC	CAT	AAT	CAT	GGG	GCA	TTC	AAA	GTG	CTC	AAT	CTT	796
	H	R	D	T	S	K	W	D	H	N	H	G	A	F	K	V	L	N	L	265
	AAG	CCT	GGG	aat	GGT	ACA	GTA	TGC	CAT	GTC	TTC	ACT	GAG	GGG	AAT	CTT	CTT	TGG	CTT	853
	K	P	G	<u>N</u>	G	T	V	C	H	V	F	T	E	G	N	L	L	W	L	284
	CCA P	AAT N	TAG *	att	aatt	acca	tata	cata	tttg	tcct	tgtt	ctat	cctt	aaat	aagt	ggaa	tcac	ctgaa	agaa	925 286
	ttg	tgcg	taat	gagt	tgtt	tgtc	tttg	tgga	aatt	gtta	tctg	tctt	gcat	cacc	aaat	aggt	atat	ataaa	aata	1000
	acaggag c g t g t at t t t g c ac a aaaa t ggat t t c aa c c g at c aaaaaaa t at a g c c t t t a c c a at t aga a gg $^{-1}$									1075										
	gtttggctttgttagcaaat <u>aataaaaataaa</u> atatcttgatgg(a)n										1119									

FIG. 19(A)

	A									
	221 -	PET PEDT PAG	KIFNMKFVNN	TKATVPLL	PRO	ISKOIPF	SEDKKKQVLA	MLGVE	NSSN	131
	SC4c	FFI EVDI VAC	KEMNVRFNAE	DGYGGKTAFI	PRG	EAETVPF	GSEKFSETLK	RFSVE	AGSEE	235
	•	FEDERAMI KCC	TIMPMPDIK-	-DKMPKRSFL	PRV	IASKLPF	STSKIAELKK	IFHAGI	DESQV	472
	PG1B	FEARINIASG	KTMKVQFTKR			PY	AOPYGVYT	WLTDI	KDTSK	215
	Sali3-2	FFIREDLING	KNFNLGHTNS	VGSTTR		PF	TKSROGVT	DSIV	WLANK	111
		FF-EHDLIPG	KTMKVQFSKP	VG511K		PF	OOPWGVGT	WLKEI	KDTTK	111
	ADR6	FFIREDLAPG	KIMKVQLSKL							
	SC4c	AKTTAETTGI.	CQE-PATEGE	RKHCATSLES	MVD	FVVSALG	KN-VGAFSTE	KERET	ESGK-	188
	DDCC	ARMMKKTIEE	C-EARKVSGE	EKYCATSLES	MVD	FSVSKLĢ	KYHVRAVSTE	VAKKN	APMQK	294
	PG1B	EKMICDALSE	C-ERAPSAGE	TKRCVNSAED	MID	FATSVLG	RN-VVVRTTE	DTKGS	NGNIM	530
	Sali3-2	EGYSEEET	CIKKEAFEGE	EKFCAKSLGT	VIG	FAISKLG	KN-IQVLSSS	FVNKQ:	E	168
	USP	FKOSLEDE	CYSPTAI-AE	HKHCVSSLKS	MID	QVISHFG	STKIKAISSN	FAPYQ:	D	164
	ADR6	FCVSFEEL	CIKKEAIEGE	EKFCAKSLGT	VIG	FAISKLG	KN-IQVLSSS	FVNKQ	D	164
	ADRO									
	SC4c	FVVVKNGVRK	LGDDKVIACH	PMSYPYVVFG	CHL	VPR-SSG	YLVRLKGEDG	VR-VK	AVVAC	246
	RD22	VKTAAAGVKK	LSDDKSVVCH	KOKYPFAVFY	CHK	VTT-MMA	YAVPLEGENG	MR-AK	AVAVC	352
	PG1B	T-GSVKGING	GKVTKSVSCH	OTLYPYLLYY	CHS	VPKVRVY	EADILDPNSK	VKINH	GVAIC	589
	Sali3-2	-OYTUEGUON	LG-DKAVMCH	GLNFRTAVFY	CHK	V-RETTA	FVVPLVAGDG	TK-TQ	ALAVC	224
al .	USP	-UAMEDAKK	VG-DNAVMCH	RLNFEKVVFN	CHQ	V-RDTTA	YVVSLVASDG	TK-TK	ALTVC	220
	ADR6	-OVTVEGVON	LG-DKAVMCH	RLNFRTAVFY	CHE	V-RETTA	FMVPLVAGDG	TK-TQ	ALAIC	220
	ADRO	Q111B01Q								
	SC4c	HRDTSKWDHN	HGAFKVLNLK	PGNGTVCHVF	TEG	NLLWLPN	*		286	
	RD22	HKNTSAWNPN	HLAFKVLKVK	PGTVPVCHFL	PET	HVVWFSY	*		392	
	PG1B	HVDTSSWGPS	HGAFVALGSG	PGKIEVCHWI	FEN	AIAWTMO	D*			630
	Sali3-2	HSDTSGMNH-	HILHELMGVD	PGTNPVCHFL	GSK	CAILWVPN	ISMDTAYQTN	VVV *	276	
LJ	USP	HHDTRGMNP-	ELLYEALEVT	PGTVPVCHFI	GNE	AAAWVPN	HTADNLCVM*			268
Ħ	ADR6	HSNTSGMNH-	QMLHQLMGVD	PGTNPVCHFL	GSK	CAILWVPN	LSVDTAYQTN	*AVI	272	
	ADICO		~							
FL										
3 L F	В									
Ŋ.	SC4c	NAALTPRI	YWETMLPRTP	LPKAITELLS	L	29				
	RD22		YWSTALPNTP			48				
	Sali3-2		YWEAVWPNTP			53				
	USP		YWQSIWPNTP			48				
	ADR6		FWHAVWPNTP			49				
	ADKO	ACLOIMEDED								

FIG. 19(B)



HYDROPHOBIC REGION: 図

CONSERVED SEGMENT : 2

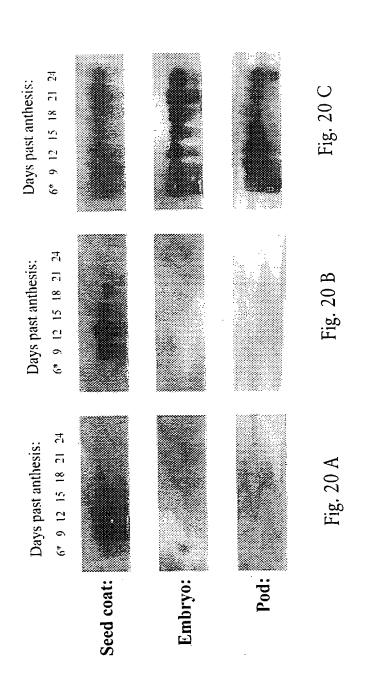
REPEATED REGION:

BURP DOMAIN :

PEPTIDE CLEAVAGE POINT: ↓

FIG. 19C

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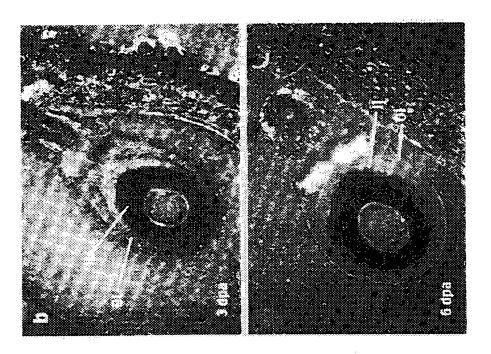


FIG. 21B

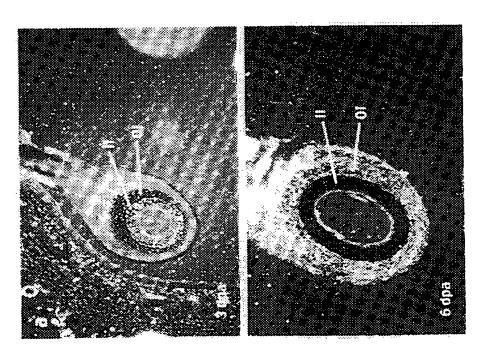


FIG. 21A

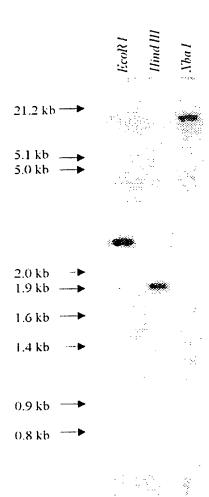


Fig. 22 A

PCT/CA99/00293

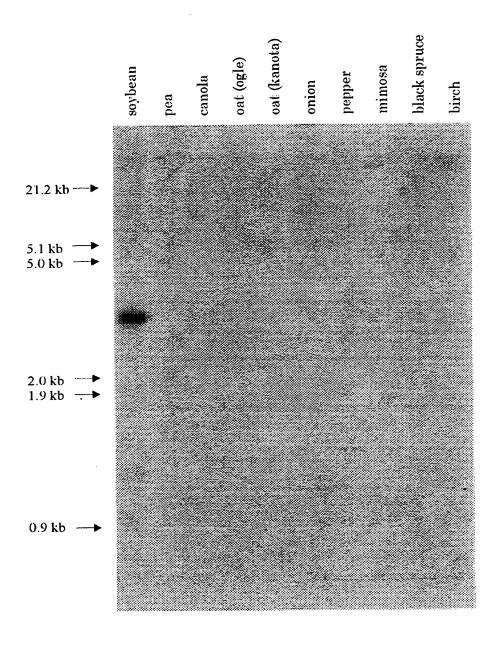


Fig. 22 B

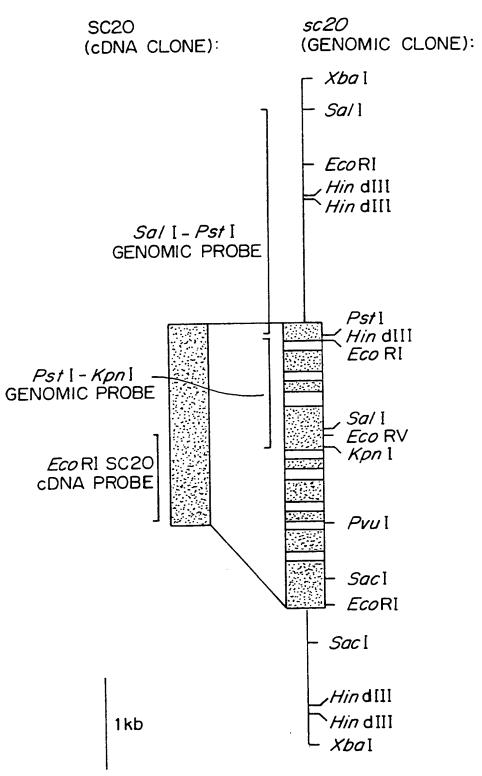


FIG. 23A

SUBSTITUTE SHEET (RULE 26)

caaa	gtt	taad	ATC M	S AAA K	A GG(r aca		TTC L	TTC L	G CAT	r TT	A TTC F	TAC Y	T ACT	T ACT	r CTC L	60 16
TTC	CTG	TTT	CTT	GTA	GTG	TCA	AGT	TCA	TCT	TCA	ACA	GGG	AAT	GAA	AGT	AAC	GAT	GAC	117
F	L	F	L	V	V	S	S	S	S	S	T	G	<u>N</u>	E	S	<u>N</u>	D	D	35
ACT	AAC	AGT	AAA	GAA	GTT	TAT	ATC	GTG	TAC	ATG	GGA	GCT	GCA	GAT	TCA	ACA	AAA	GCT	174
T	N	S	K	E	V	Y	I	V	Y	M	G	A	A	D	S	T	K	A	54
TCT	CTT	AAA	AAT	GAG	CAC	GCT	CAG	ATT	CTG	AAT	TCA	GTG	CTA	AGA	AGG	AAT	GAG	AAT	231
S		K	N	E	H	A	Q	I	L	N	S	V	L	R	R	N	E	N	73
GCC	CTA	GTA	CGG	AAC	TAC	AAG	CAT	GGT	TTC	TCT	GGG	TTC	GCA	GCT	CGT	CTA	TCA	AAA	288
A	L	V	R	N	Y	K	H	G	F	S	G	F	A	A	R	L	S	K	92
GAG E	gaģ E	GCA A	AAC N	TCA S	ATT	GCT . ^A	CAG Q	AAA K	CCT P	GGT G	GTG V	GTG V	TCT S	GTT V	TTC F	CCT	GAC D	CCC P	345 111
ATT	CTG	AAG	CTC	CAC	ACT	ACA	CGT	TCA	TGG	GAT	TTC	CTC	AAA	AGC	CAA	ACT	CGT	GTC	402
I	L	K	L	H	T	T	R	S	W	D	F	L	K	S	Q	T	R	V	130
AAT	ATC	GAC	ACC	AAA	CCA	AAT	ACG	CTG	TCC	GGT	TCT	TCT	TTT	TCT	TCA	TCA	GAC	GTC	459
N	I	D	T	K	P	N	T	L	S	G	S	S	F	S	S	S	D	V	149
ATT	CTT	GGC	GTC	TTA	GAC	ACA	GGC	ATA	TGG	CCA	GAG	GCG	GCG	AGT	TTT	AGC	GAC	AAG	516
I	L	G	V	L	D	T	G	I	W	P	E	A	A	S	F	S	D	K	168
GGT	TTC	GGT	CCT	GTT	CCA	TCC	CGA	TGG	AAA	GGC	ACC	TGC	ATG	ACA	TCA	AAA	GAC	TTC	573
G	F	G	P	V	P	S	R	W	K	G	T	C	M	T	S	K	D	F	187
			TGT C		AAC N	AGG R	AAG K	ATA I	ATT I	GGC G	GCG A	AGG R	TTT F	TAC Y	CCT P	AAC N	CCA P	GAG E	630 206
GAG	AAA	ACG	GCA	AGG	GAT	TTC	AAC	GGA	CAT	GGG	ACT	CAC	GTT	TCG	TCG	ACG	GCA	GTG	687
E	K	T	A	R	D	F	N	G	H	G	T	H	V	S	S	T	A	V	225
GGC	GTG	CCG	GTG	AGT	GGC	GCA	TCG	TTC	TAT	GGT	CTG	GCG	GCG	GGG	ACG	GCA	AGG	GGT	744
G	V	P	V	S	G	A	S	F	Y	G	L	A	A	G	T	A	R	G	244
GGG	TCC	CCT	GAG	TCA	AGG	TTG	GCG	GTT	TAC	aaa	GTG	TGT	GGG	GCT	TTT	GGG	TCA	TGT	801
G	S	P	E	S	R	L	A	V	Y	K	V	C	G	A	F	G	S	C	263
_	GGG	TCG	GCC	ATT	CTT	GCG	GGG	TTT	GAC	GAT	GCC	ATT	CAC	GAC	GGA	GTG	GAT	ATC	858
	G	S	A	I	L	A	G	F	D	D	A	I	H	D	G	V	D	I	282
TTG	TCG	CTG	TCG	CTC	GGT	GGA	TTC	GGT	GGA	ACC	AAA	ACC	GAT	TTG	ACC	ACC	GAC	CCG	915
L	S	L	S	L	G	G	F	G	G	T	K	T	D	L	T	T	D	P	301
ATT		ATT	GGA	GCA	TTC	CAC	TCC	GTC	CAG	CGC	GGC	ATC	CTG	GTG	GTC	TGC	GCC	GCC	972
I		I	G	A	F	H	S	V	Q	R	G	I	L	V	V	C	A	A	320
	AAC N	GAC D	GGA G	GAA E	CCA P	TTC F	ACC T	GTT V	CTC L	AAC N	GAC D	GCA A	CCT	TGG W	ATT I	TTA L	ACC T	GTT V	1029 339
GCA	GCT	TCC	ACC	ATC	GAC	CGT	GAT	CTT	CAA	TCC	GAC	GTG	GTC	TTG	GGT	AAT	AAC	CAA	1086
A	A	S	T	I	D	R	D	L	Q	S	D	V	V	L	G	N	N	Q	358

FIG. 23(B)

GTC GTC AAG GGA AGA GCC ATA AAT TTC TCC CCT CTT TTA AAT TCT CCC GAT TAT CCA 1143 L N S P S Ď T. = 7 I N G ATG ATA TAT GCT GAG TCT GCT GCC AGG GCA AAT ATC TCC AAC ATA ACT GAT GCA AGA 1200 N I S N I T D R A s Α Α CAA TGC CAC CCA GAT TCA TTA GAT CCA AAA AAA GTC ATA GGG AAG ATT GTG GTT TGT 1257 K K V I G K D S D GAT GGA AAA AAT GAC ATT TAT TCA ACT GAT GAG AAA ATT GTC ATA GTG AAG GCG 1314 Ŧ Ε ĸ T. T v S D N K TTG GGA GGA ATA GGT CTG GTT CAT ATT ACT GAT CAA TCT GGA TCA GTA GCA TTT TAT 1371 G D 0 S Н I G G TAT GTG GAC TTC CCA GTA ACA GAG GTA AAA TCA AAA CAT GGC GAC GCA ATC CTC CAG 1428 D A K H s V ĸ E TAC ATC AAC TCA ACT AGC CAT CCA GTG GGA ACA ATA CTA GCA ACA GTT ACA ATT CCT 1485 L Α T V G N S T S H P GAT TAT AAG CCT GCT CCC CGG GTG GGT TAT TTT TCA TCA AGA GGG CCT TCA TTG ATT 1542 ₽ S R G S G Y F S 2 P K \mathbf{A} ACA AGC AAT GTT CTC AAG CCT GAT ATT GCA GCC CCG GGA GTT AAC ATT CTC GCT GCA 1599 V N G A D Ι Α ĸ TGG TTT GGA AAT GAC ACA TCA GAG GTT CCA AAA GGA AGA AAG CCC TCA CTA TAT CGC 1656 ĸ G R K ν P N D T S E G ATA CTC TCA GGA ACT TCC ATG GCT ACT CCA CAT GTT TCA GGG CTT GCA TGC AGT GTC 1713 G Н M T P T S AAA AGA AAA AAC CCC ACT TGG AGT GCC TCC GCA ATC AAA TCT GCC ATC ATG ACT TCA 1770 S А I K S A S A T W GCA ATT CAA AAT GAC AAT TTG AAG GGT CCC ATA ACA ACG GAT TCA GGG TTG ATA GCC 1827 S G D T Þ G L D N ACA CCT TAT GAC TAT GGA GCA GGG GCA ATT ACA ACA TCT GAA CCA TTG CAA CCG GGG 1884 S E A I Т T G v A v ת CTA GTT TAT GAA ACC AAC AAC GTT GAC TAC TTG AAC TAT TTG TGT TAC AAT GGA CTT 1941 С Y D v Τ. N N AAC ATA ACC ATG ATA AAG GTC ATC TCC GGA ACT GTC CCC GAG AAT TTC AAT TGT CCC 1998 N G P S V I Ι AAG GAT TCG AGC TCT GAT CTC ATC TCC AGC ATC AAC TAC CCT TCC ATA GCA GTA AAC 2055 A V I S S Ţ N Ā s I L D TTC ACT GGC AAA GCA GAC GCG GTC GTG AGT AGA ACT GTC ACA AAC GTT GAC GAA GAA 2112 N R v S D A K GAT GAA ACA GTG TAC TTC CCC GTT GTT GAA GCT CCT AGT GAA GTA ATT GTC ACA CTC 2169 Ε S 2 P V P v Т TTT CCA TAT AAT CTT GAG TTT ACG ACA AGT ATT AAA AAA CAA AGC TAC AAT ATT ACT 2226 X 0 T s I K Ξ. N Y

FIG. 23(B)(Cont'd)



																			2283 757
_																			
												AAA K			aatta	aaaa	gcag	gcga	2344 770
tg <u>aa</u>	taaa	itacs	aagct	aagt	cct	cgt	35 55	cctac	acto	gagt	ccts	gatta	attta	attat	icat	catgo	cett	etgt	2419
ttta	attt	at t	tatt	atac	ב בנ	cago	ct (a	ı)n											2447

FIG. 23(B)(Cont'd)

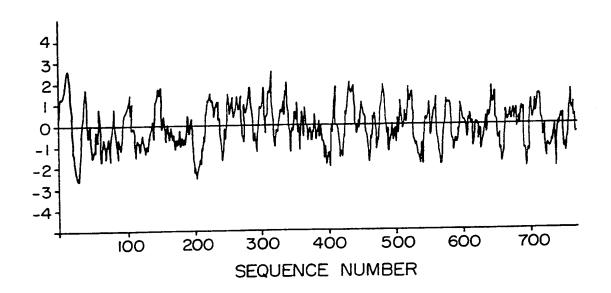


FIG. 23C

D region	н г	egion	
D 10910	*		*
SC20:2	SDVILGVLDTGI 156	SC20:2	DFNGHGTHVSSTAVG 224
AF70	TDIILGFLDTGI 145	AF70	DYQGHGTYTAATAAG 229
Cucumisin	SNIVVGVLDTGI 143	Cucumisin	DNTGHGTHTASTAAG 214
P69B	KGVIIGVIDTGI 149	P69B	DDIGHGTHTASTAAG 213
Aq12	EDVIIGVIDSGV 148	Ag12	DTLGHGTHTASTAAG 216
Subtilisin BPNÆ	SNVKVAVIDSGI 142	Subtilisin BPNÆ	DNNSHGTHVAGTVAA 181
Kex2	AGVVAAIVDDGL 178	Kex2	SDDYHGTRCAGEIAA 223
Furin	HGIVVSILDDGI 156	Furin	NDNRHGTRCAGEVAA 204
S region SC20:2 AF70 Cucumisin P69B Ag12 Subtilisin BPNÆ	* SGTSMATPHVSGLA 562 SGTSVAVPHVTGAA 571 SGTSMSCPHITGIA 535 SGTSMSCPHLSGVA 541 SGTSMACPHASGVA 547 NGTSMASPHVAGAA 338	N region SC20:2 AF70 Cucumisin P69B Ag12 Subtilisin BPNÆ	# SVQRGILVVCAAGNDG 322 ATQKGILVVSSAGNEG 329 AVERGILTSNSAGNGG 310 ATERGILVSCSAGNSG 308 AMEKGVVVSTSAGNAG 318 AVASGVVVVAAAGNEG 264
Kex2	GGTSAAAPLAAGVY 395	Kex2	RDSKGAIYVFASGNGG 316
Kex2 Furin		Kex2 Furin	RDSKGAIYVFASGNGG 316 RGGLGSIFVWASGNGG 297

FIG. 23(D)

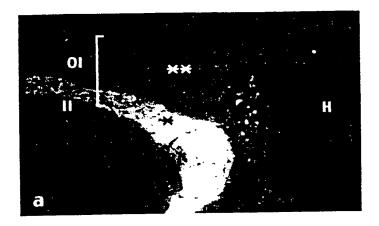
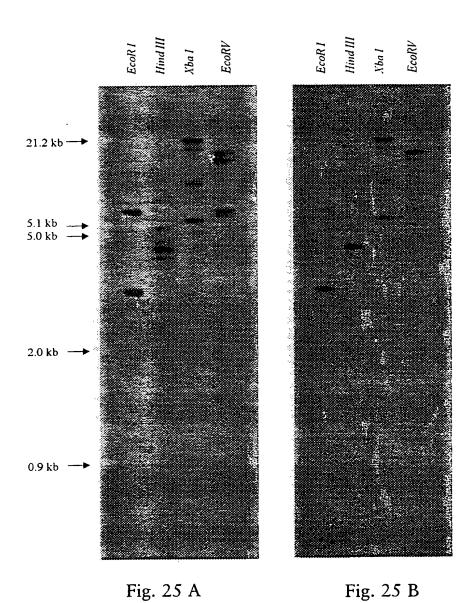


FIG. 24A



FIG. 24B



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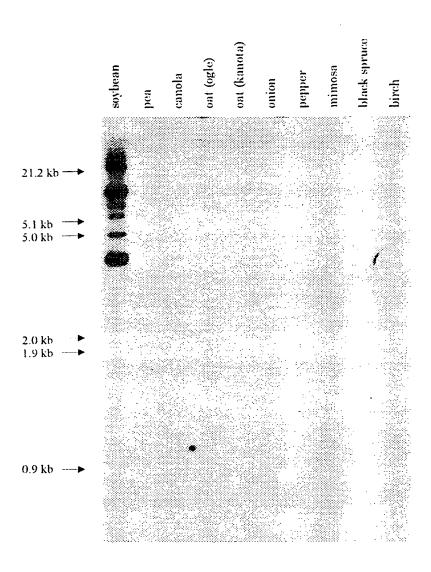


Fig. 25 C